

FRICITION STIR WELD TOOL AND METHOD

ABSTRACT OF THE DISCLOSURE

5 A rotatable tool for friction stir welding a workpiece and an associated
apparatus and method are provided. The tool includes a first pin portion that extends
from a shoulder and defines a contour surface opposite the shoulder. A second pin
portion extends from the contour surface of the first pin portion. The contour surface,
which mixes the material of the workpiece during welding, can increase the mixing of
the material at the interface, thereby increasing the strength of the joint.

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